

Defining ultimate resolution The DCFL gun

The electron gun of the Cybertube+ High Definition tube contains many features that combine to guarantee the outstanding sharpness of the three electron spots and ensure that the full potential of the tubes fine-pitch shadow mask and high-frequency deflection yokes is realized.

Features such as:

- **Improved Oxide Plus cathodes** that allow exceptionally high beam current densities without compromising spot sharpness,
- **Dynamic Beam Forming** providing near perfect spot geometry
- **Dynamic Focusing** that provides scan-dependent modulation of the focusing voltage to maintain perfect beam focusing over the whole scanned area.

And the latest, exciting innovation from LP Displays

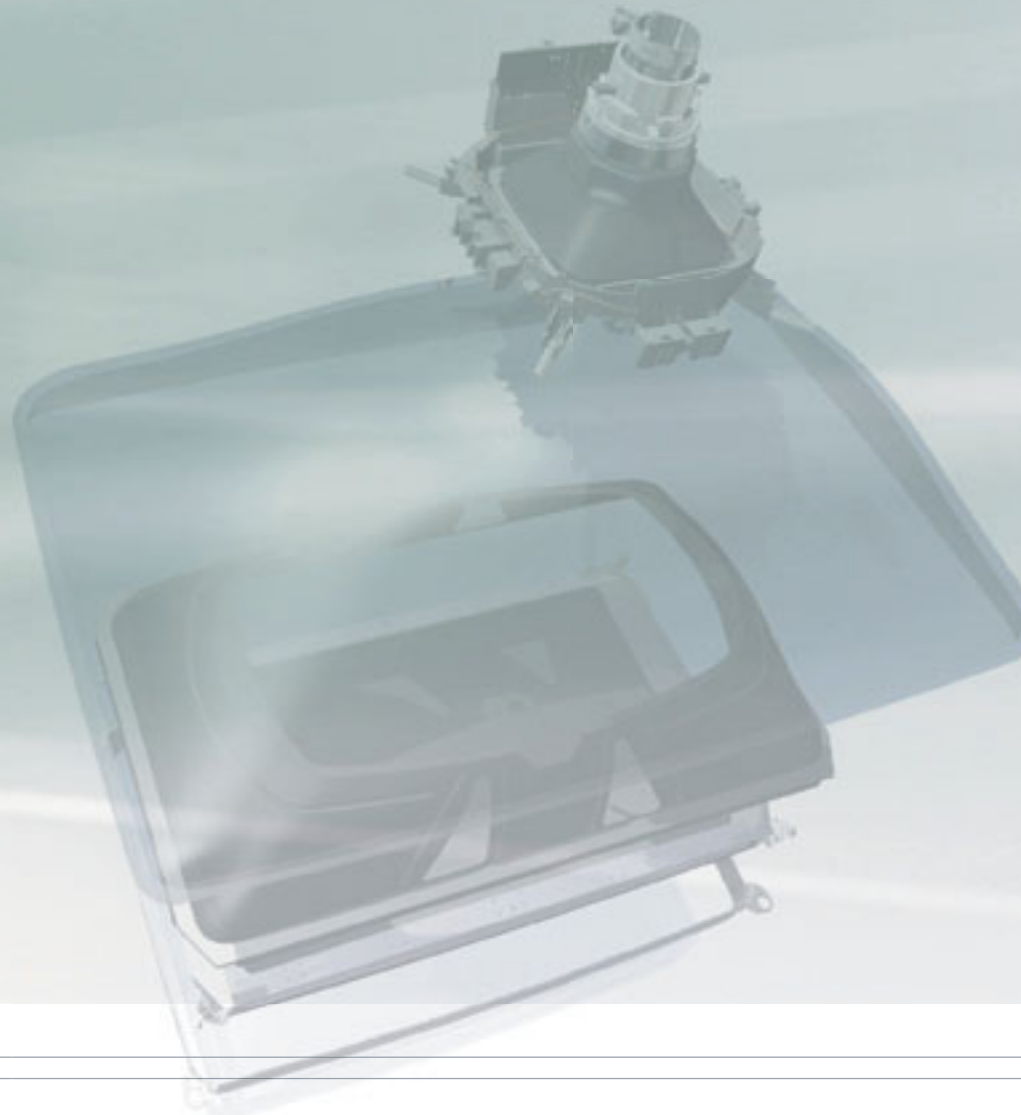
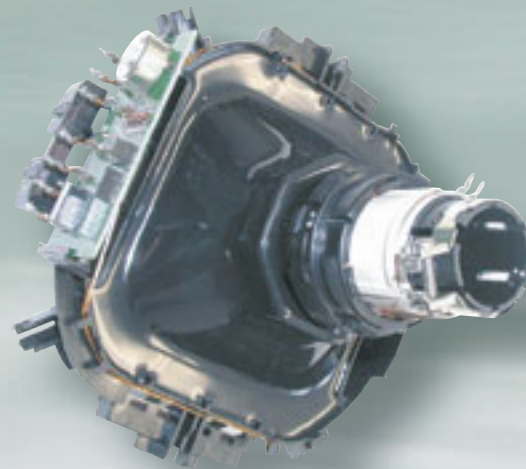
- the **Distributed Composed Field Lens** that minimizes aberrations in the electron optical system to produce an electron spot that is sharper and cleaner than ever before...

.... and providing for each separate colour **megapixel resolution** over the whole television screen even at beam current as high as 2 milliamps.

High deflection frequency The new rectangular (RAC) deflection yoke

Our new RAC rectangular deflection yoke, based on proprietary winding technology, minimizes deflection energy by moving the current-carrying wires of the deflection coils closer to the electron beams. This allows for higher scanning frequencies up to 48 kHz with minimal heating of the windings...

.... dramatically increasing the number of TV scanning lines and easily meeting the HD 720 p and 1080i High Definition standards.



Real Flat High Definition Colour Picture Tubes

The ultimate in today's picture performance



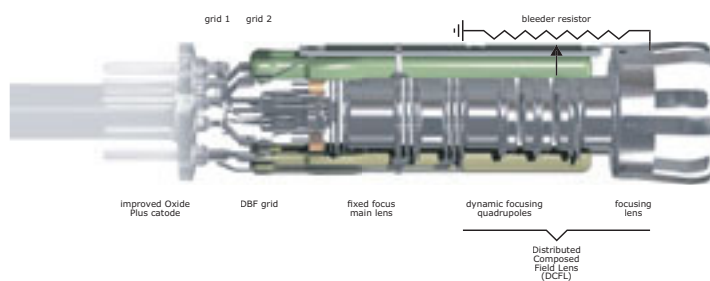
Gets the most out of DVD, HD and Digital signals and TV signal improvements

Excellent picture performance

Fast and easy design-in



DCFL gun with functional breakdown of the gun superimposed



www.lpdisplays.com

More than 10 years' know-how and experience in developing and manufacturing Real Flat products are combined in our new Cybertube+ range of full-featured, Real Flat colour picture tubes. A range that sets the standard for a new era of high-quality display products.

The need for flat screens can result in complex chassis solutions to provide the desired geometrically perfect picture. We have extensively researched this application area with the result that our Cybertube+ range can be used in existing TV chassis without any major modifications...

The lightly-curved inner screen surface of the DCM tube also means that the glass is thinner than with a conventional Real Flat tube and absorbs less light, further contributing to brighter television picture.

Highly-pigmented phosphors are also very efficient. Their higher light output results in brighter television pictures without any loss of contrast. And since they reflect less ambient light back into the room, they also give better daylight contrast.

Combined with DCM technology and highly-pigmented phosphors, the unique combination of features that make up Cybertube+ High Definition brings to set manufacturers a product that is without doubt at the very forefront of today's High Definition picture-tube technology...

.... providing outstanding television picture quality and a viewing experience that is virtually indistinguishable from reality.

The super-small electron spot produced by our new DCFL electron gun provides the perfect complement to the fine-pitch shadow mask of the Cybertube+ High Definition range. Combining this with our new high-frequency rectangular deflection unit capable of generating 720 horizontal scanning lines results in a screen resolution that offers the highest number of visible pixels ever displayed by a television tube!

Compare the television picture on the left produced by a standard electron gun and a fine pitch mask with the picture on the right produced by the new balanced approach of Cybertube+ High Definition...

.... combining the fine pitch mask, the Distributed Composed Field Lens electron gun and the new high-frequency deflection yoke.

You really have to see the difference to believe it!

